

Claims:

1-32. (Cancelled)

33. (Currently Amended) An intravascular stent comprising a ~~mesh~~tubular member, the ~~mesh~~tubular member having an internal helical formation to induce spiral-flow therethrough, the internal helical formation having a helix angle between 5 and 16 degrees relative to a longitudinal axis of the stent.

34. (Currently Amended) The stent according to claim 33, wherein the tubular member comprises a mesh member that is expansible and is inserted by catheterization in collapsed form and which becomes expanded on release from the catheter, the ~~mesh member~~ having an internal spiralhelical formation after expansionbeing attached to an interior portion of the mesh member.

35. (~~Previously Present~~Currently Amended) The stent according to claim 34, wherein the mesh member comprises crisscrossed wirewires extending helically around the periphery of the stent, and the internal ~~spiral~~helical formation comprises a helical vane member attached to such wirewires.

36. (Currently Amended) The intravascular stent according to claim 33, wherein the helix angle of the stent has ainternal helical formation ~~thereon to induce spiral flow and is~~ adjustable.

37. (Currently Amended) The intravascular stent according to claim ~~36~~33, wherein the ~~stent~~internal helical formation ~~further~~ comprises:

a rigid support coaxially mounted within the tubular member; and

a spiral flow inducer vane surrounding and extending from the rigid support, ~~the vane having an adjustable helix angle.~~

38-46. (Cancelled)

47. (Currently Amended) An intravascular stent comprising:

an expansible tubular mesh member having a collapsed form to be inserted into a vein and an expanded form to be retained within the vein;

the mesh member having at least one vane stationarily attached to an interior thereof and extending helically to induce spiral flow of blood, said at least one vane having a helix angle of between 5 and 16 degrees relative to a longitudinal axis of the mesh member.

48. (Previously Presented) The stent according to claim 47, wherein the mesh member comprises a plurality of wires that extend helically and cross each other to form junctions.

49. (Currently Amended) The stent according to claim 33, wherein the internal stenthelical formation comprises:

a rigid support rod coaxially mounted in the tubular member;

a flexible sleeve within the tubular member and surrounding the support rod;

a flexible helical vane mounted to the sleeve; and

wherein the sleeve is axially contractible relative to the support rod to vary an angle of the vane relative to the support rod.

50.- 53 (Cancelled)

54. (Currently Amended) The intravascular stent according to claim ~~37~~33, wherein the helix angle is about 16 degrees relative to the longitudinal axis of the tubular member.